

Title (en)

PROCESS FOR PRODUCING POXVIRUS RECOMBINANTS FOR EXPRESSION OF FOREIGN GENES

Publication

EP 0110385 B1 19930217 (EN)

Application

EP 83111976 A 19831129

Priority

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Abstract (en)

[origin: EP0110385A2] Methods and compositions are provided for the use of vaccinia virus or other poxviruses as vectors for expression of foreign genes. Expression of foreign genes is obtained by combining poxvirus transcriptional regulatory sequences with uninterrupted foreign protein coding sequences in vitro to form a chimeric gene. The chimeric gene is flanked by DNA from a non-essential region of poxvirus genome to provide sites for in vitro homologous recombination in cells previously infected with a genus of poxvirus.

IPC 1-7

A61K 39/00; A61K 39/12; C07K 15/00; C12N 9/10; C12N 15/39; C12N 15/86

IPC 8 full level

C12N 15/00 (2006.01); **A61K 39/12** (2006.01); **A61K 39/275** (2006.01); **C07H 21/04** (2006.01); **C07K 14/02** (2006.01); **C07K 14/035** (2006.01); **C07K 14/07** (2006.01); **C12N 1/00** (2006.01); **C12N 7/00** (2006.01); **C12N 9/10** (2006.01); **C12N 15/09** (2006.01); **C12N 15/863** (2006.01); **C12P 19/34** (2006.01); **C12P 21/00** (2006.01); **C12P 21/02** (2006.01); **A61K 39/00** (2006.01); **C12R 1/19** (2006.01); **C12R 1/91** (2006.01)

IPC 8 main group level

A61K (2006.01); **C12N** (2006.01); **C12P** (2006.01)

CPC (source: EP US)

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Citation (examination)

- Proc. Natl. Acad. Sci. USA, Vol. 80, September 1983, no. 17, Genetics, Washington, US, D. PANICALI et al.: "Construction of live vaccines by using genetically engineered poxviruses: Biological activity of recombinant vaccinia virus expressing influenza virus hemagglutinin" pages 5364-5368
- NATURE, vol. 302, April 1983, no. 5908, Chesham, Bucks, GB, G.L. SMITH et al.: "Infectious vaccinia virus recombinants that express hepatitis B virus surface antigen", pages 490-495
- CHEMICAL ABSTRACTS, vol. 99, no. 9, August 29, 1983, page 179, ref. 65367p, Columbus, Ohio, US & US- A-445 892 (UNITED STATES DEPT. OF HEALTH AND HUMAN SERVICES)
- CHEMICAL ABSTRACTS, vol. 99, no. 19, November 7, 1983, page 167, ref. 153207s, Columbus, Ohio, US & US - A - 445 451 (UNITED STATES DEPT. OF HEALTH AND HUMAN SERVICES)
- Proc. Natl. Acad. Sci. USA vol. 79, Februari 1982, Genetics, J.P. WEIR et al.: Mapping of the vaccinia virus thymidine kinase gene by marker rescue and by cell-free translation of selected mRNA", page 1210-1214
- CHEMICAL ABSTRACTS, vol. 95, no. 21, November 23, 1981, page 228 ref. 182552y, Columbus, Ohio, US, S. VENKATESAN et al.: "Distinctive nucleotide sequences adjacent to multiple initiation and termination sites of an early vaccinia virus gene" & Cell (Cambridge Mass), 1981, 25(3), 805-13 (Eng.)
- Proc. Natl. Acad. Sci. USA, vol. 79, August 1982, Biochemistry, D. PANICALI et al.: "Construction of poxviruses as cloning vectors: Insertion of the thymidine kinase gene from herpes simplex virus into the DNA of infectious vaccinia virus", pages 4927-31
- Proc. Natl. Acad. Sci. USA, vol. 79, December 1982, Genetics M. MACKETT et al.: "Vaccinia virus: A selectable eukaryotic cloning and expression vector", pages 7415-7419

Cited by

AT408549B; US5242829A; EP0232410A4; EP0263591A3; FR2603040A1; GB2246784B; US6162620A; EP0254614A1; FR2601033A1; FR2620459A1; US5021347A; EP0198328A3; DE3890874C5; EP0261940A3; EP0324350A1; EP0262043A1; FR2604183A1; US5840481A; US5580716A; EP0206920A1; FR2583429A1; SG122763A1; EP0255383A1; US4992374A; EP0206939A1; FR2583770A1; EP0259212A1; FR2602790A1; EP0268501A1; US5597570A; EP0236145A1; GB2194538A; GB2194538B; WO2017210181A1; US6610295B1; US7541044B2; EP2042598A1; WO8607610A1; WO8705326A1; WO8802027A1; WO8607609A1; US7767449B1; US7910109B2; WO2017120577A1; US11638750B2; US7575916B2; US7888115B2; EP1022338A2; US7601698B2; US7615612B2; US7666669B2; US7148035B1; EP0775746A2; EP2264178A1; EP2359851A2; EP2363143A2; EP2371380A1; EP2277918A2; EP2319860A2; US8197825B2; EP2045268A1

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